

College of Engineering

# ENVIRONMENTAL ENGINEERING

## Leading the Way in Sustainability

Environmental engineers assess the impact of human activity on our environment. They develop strategies and technologies to provide a balance between quality of life and environmental health. Their work improves water treatment, prevents pollution, recovers resources and energy from waste, and remediates hazardous materials from air, soil and groundwater.



### ACADEMICS FOR SUCCESS

UA environmental engineering students benefit from being part of a combined chemical and environmental engineering department, gaining background in traditional chemical engineering foundations including processes, economics and safety.


They learn how to predict the consequences of pollutants on the ecosystem and public health, and they master techniques to improve the environment. Students take hands-on laboratory courses and participate in interdisciplinary capstone design projects that focus on processes to treat air, water and soil in a sustainable manner.

### REWARDING CAREER PATHS

Environmental engineers can find high demand careers in environmental health at private consulting companies, government agencies, research and development -firms, and industry. The average salary is over \$105,000, according to the Bureau of Labor Statistics. Some graduates pursue advanced degrees and careers in academia.



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## RESEARCH TO BETTER OUR WORLD

Shanghai Ranking consistently puts the University of Arizona at #1 nationally in water resources. More than 90% of undergraduates participate in high-profile research, in areas including:

- Water reuse, desalination and chemistry
- Environmental biotechnology and remediation
- Renewable energy and sustainability
- Air quality and climate
- Materials and semiconductors
- Resource recovery

Students also have opportunities to work on pilot-scale research projects at the Water & Energy Sustainable Technology (WEST) Center, the UA's leading facility in the development of new technologies that deal with water scarcity and reuse.

“ I believe that a combination of chemical and environmental engineering will give me the best tools to make an impact on the world. ”

*Alum Carlos Weiler, PhD student at the University of Virginia*



## LEARNING FROM EXPERIENCE

Club involvement, along with professional and peer mentorships, are vital to the undergraduate experience. Wildcat engineers benefit from myriad hands-on activities and real-life projects.

- Research projects and field experience
- Engineers Without Borders student chapter
- Networking with faculty, alumni and professionals
- Senior design projects with experienced industry mentors
- Paid internships with industry
- Student clubs and national competitions

## A PLACE FOR EVERYONE

Various engineering clubs help ensure all students feel welcome and connected. These include the American Indian Science & Engineering Society; the National Society of Black Engineers; Out in Science, Technology, Engineering, and Mathematics; the Society of Hispanic Professional Engineers; and the Society of Women Engineers.



“ Our faculty and advisors are dedicated to mentoring students, fostering leadership, and creating an inclusive environment where all students thrive. ”

*Kim Ogden, department chair*

### Recruiting and Admissions

520.621.6032 – [enr-admissions@arizona.edu](mailto:enr-admissions@arizona.edu)

### Advising

520.621.1897 – [advisor@chee.arizona.edu](mailto:advisor@chee.arizona.edu)